CNEBIKES CO.,LTD

E-BIKE DIY USER MANUAL

The simplest e-bike conversion kit

www.cnebikes.com www.cnebikes.en.alibaba.com

Contents

Getting started…….....Page 2,3

Tool List…….....Page 4

Mounting the Tire……Page 5

Preparing the Rear Wheel ……...Page 6

Preparing and installing the Front Wheel…...Page 7

Installing the wheel……..Page 8

Installing brake lever and throttle……..……Page 9,

Installing LED or LCD meter …….....Page 10

PAS Installation…….....Page 11

Installing Vehicle Speed Sensor…….Page 12

Connections of Controllers……..Page 13 – 15

Installing the controller bag…….Page 16

Installing the water-bottle/tube battery……..Page 17

Cable tying……..……...…Page 18

Getting started:

First, open up the box and lay out the contents inside.
Check that you have:

1) A motorized big motor wheel or

2) A mini motor wheel

3) A controller set

4) A pair of power brake

5)Twist throttle or Thumb Throttle

6) PAS system

Optional items:

1)Lithium battery

2) controller's bag
(Example: water-bottle li-ion battery)

3)LED meter or

4) Multifunction LCD meter

Different types of lithium batteries

battery without house

waterbottle

lift

rack

Basic Tools:

List:

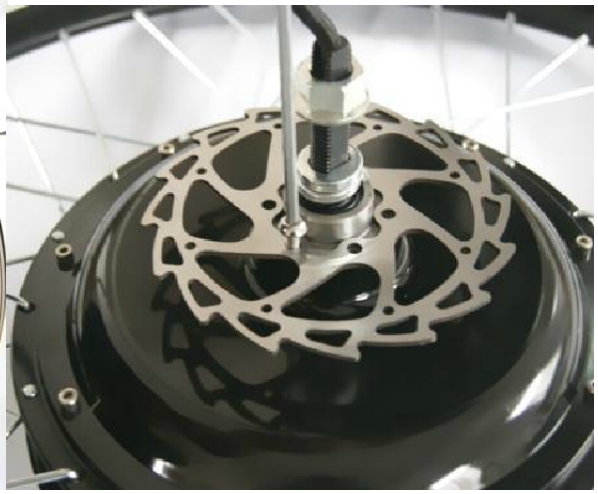
P) At least 6 Zip Ties (For holding wires firmly to your bicycle frame)
Q) 3 Allen Wrench with diameters 2.5mm, 3.0mm, 5.0mm
R) Adjustable wrench
S) Philip Screwdriver

Locating the parts on the bike

Preparing the Back Wheel (Includes Gear and Disc Brake)

1) Installing the gear on the back wheel

2) Installing the Disc Brake



Note: Please check your disc brake diameter. In most cases, 140mm disc brake are used for the rear wheel while 160mm are used for the front wheel.

Mounting the Tire

First confirm the direction of the thread pattern of your tires.

Turn the wheel around and insert the tube's valve into the opening of the wheel's rim.

Place the rest of the tube between the rim and the tire and pull the tire over the rim. Then pump it up, check for leaks and you're done assembling the wheel.

Important Note: Please choose a tube with a longer valve as CNEBIKES rims are double walled. The rims are double walled to be able to with stand the powerful torque from the motor.

Preparing and installing the Front Wheel

1) Remove your front wheel

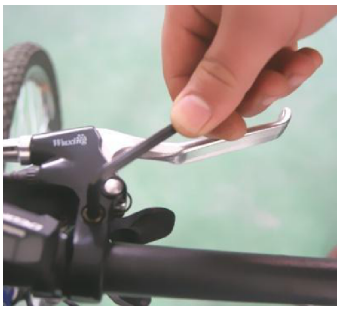
2) Insert the motorized wheel, insuring, that the cables running to the motor are on the right handside in normal driving direction. Otherwise the wheel will run backwards! Please orient yourself using the following pictures

Installing the wheel

Place the hub of your motor between the dropouts of your bike frame. Firmly seat the axle into the dropouts to gain a good fit. **Tighten the nuts very firmly.** This is a crucial step in building a good electric bike, as the motor provides a very large torque, which may otherwise loosen your nuts.

Installing brake levers

Slide the hand brakes into both sides of the handlebar. Find a comfortable position.



Then tighten using a 5.0mm Allen Wrench

Installing the thumb throttle/twist throttle

A-Thumb throttle

Slide the thumb throttle into either side of the handlebar that you f eel comfortable with.

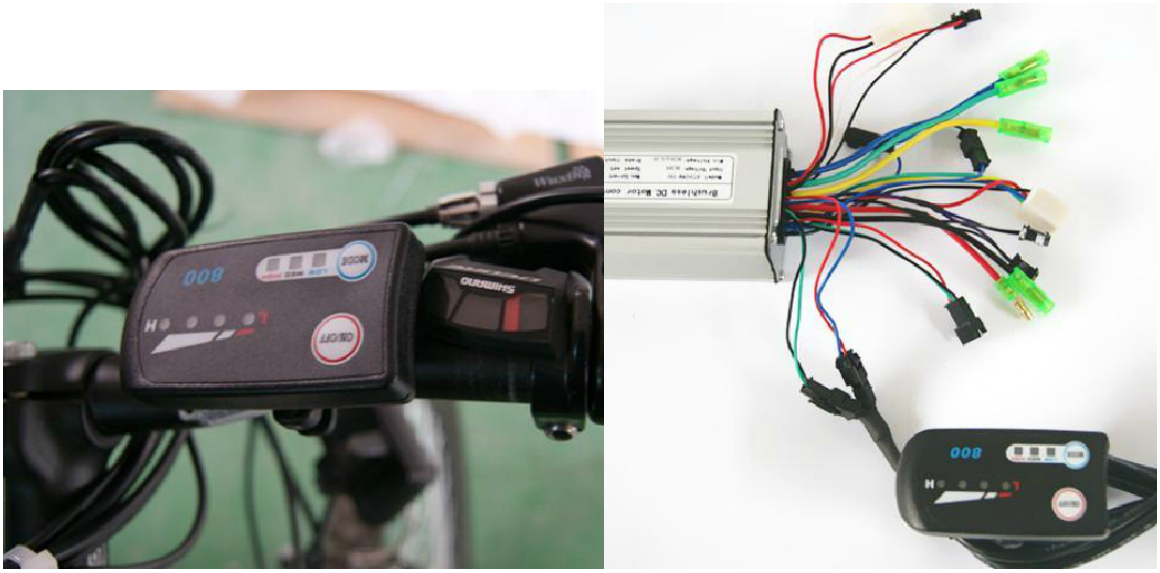
Place your hand on the bar and find the position where your thumb feels most comfortable pressing down on the throttle.

B- Twist throttle

Slide the Twist throttle into the right side of the handlebar and get a feel of twisting the throttle.

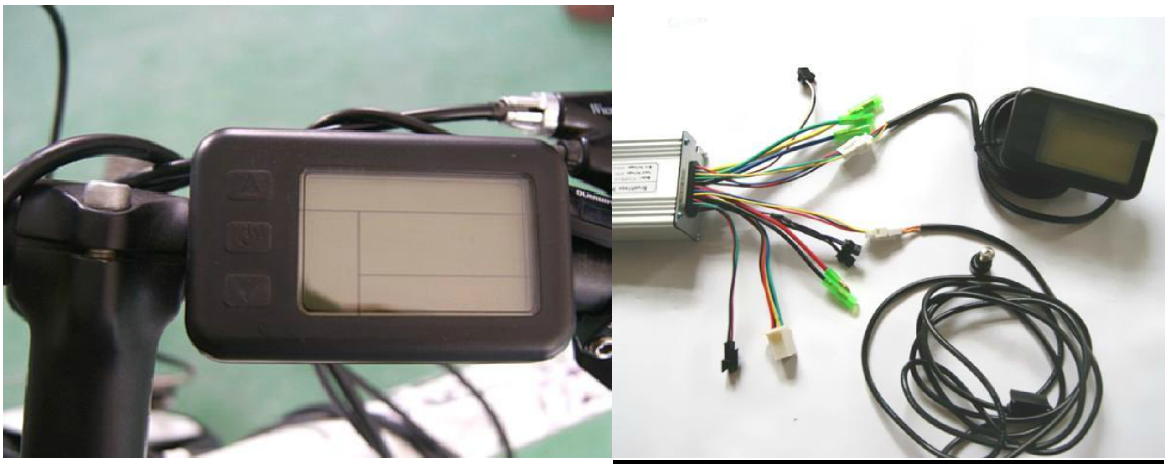
When you feel comfortable with the position, use the 3.0mm Allen Wrench and secure it into place.

Installing LED Display



Slide the LED display on either side of the steering bar so you feel comfortable.

Installing Multifunction LCD Display



Slide the display on either side of the steering bar so you feel comfortable.

Installing Vehicle Speed Sensor

When the LCD instrument matches the high-speed motor without signal for speed output (with built-in clutch), it requires an external vehicle speed sensor.The installation method of the external vehicle speed sensor refers to the pictures below.

Mount the sensor to the fork using the rubber bands

Mount the magnet to the spokes using a Philips screwdriver

Installing Pedal Assistance System (PAS)

The Pedal Assistance System, also known as pedal system, is a compulsory component of an electric vehicle in European countries. The system controls the amount of electricity supplied to the motor proportional to the angular velocity of the pedal. (i.e. the faster you pedal, the faster the motor turns.)

Remove the pedal crank arm.

Place the sensor ring to the bottom bracket and secure it in position using washers or superglue.

Place the outer magnetic ring next to the sensor ring. Make sure they do not have any contact by spacing them apart using washers.

Detail of sensor ring and magnetic ring.

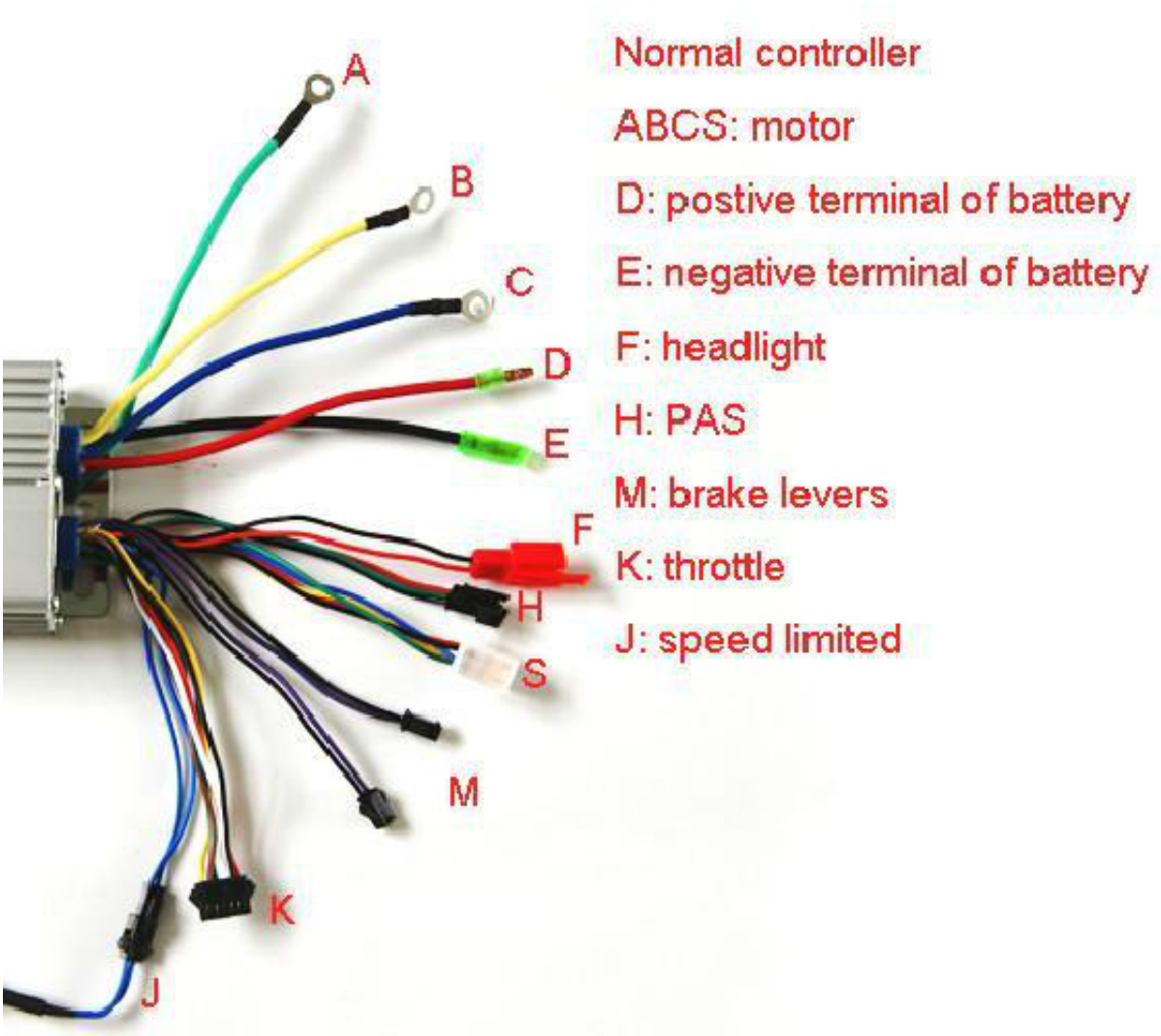
Screw back the pedal into place, connect the PAS wire with the controller and you are ready to ride legally in Europe.

Connection of Controllers

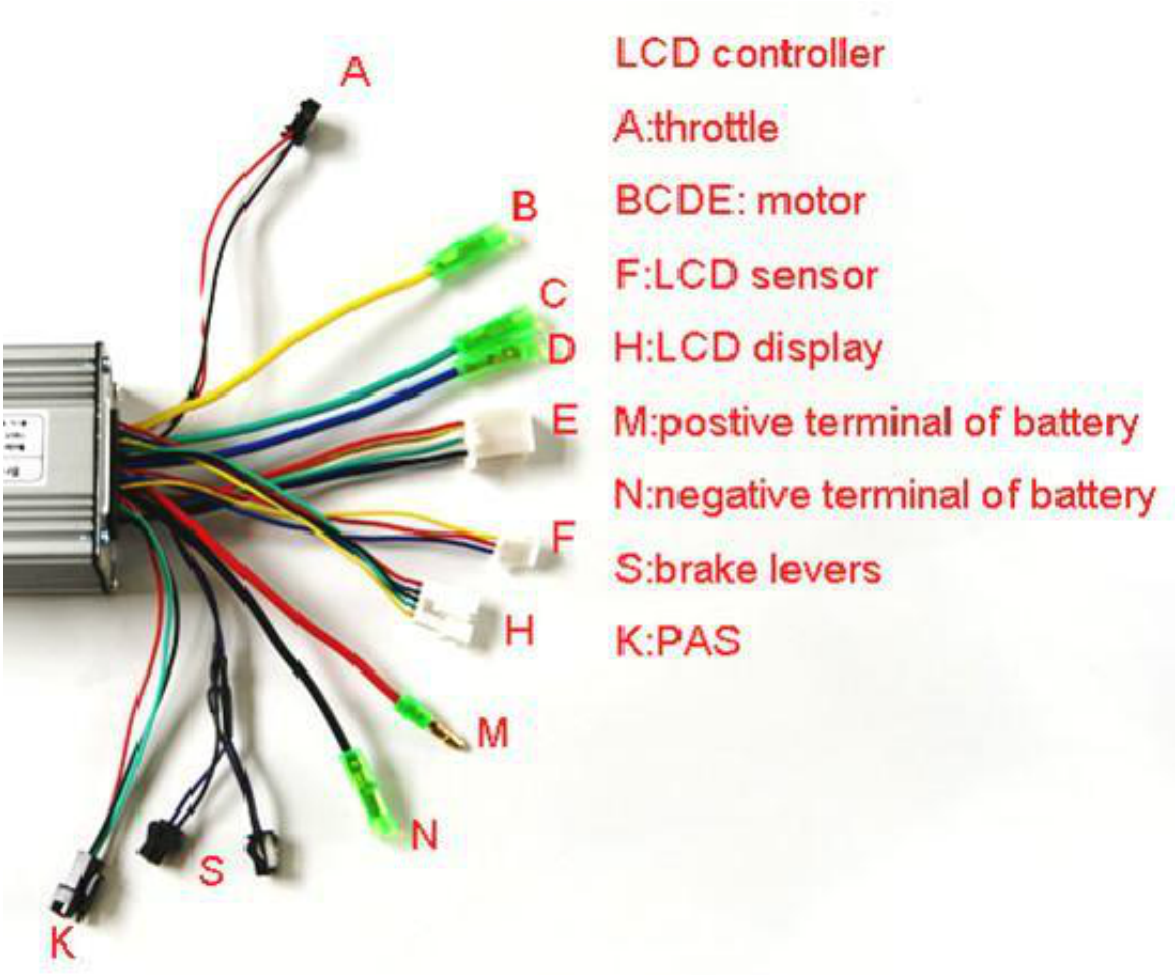
There are three intelligent controllers for our normal (A), LED (B) and LCD (C) kits. So please connect your kits with different controller according to the connection graph below.

Note: please check which controller you have before connecting.

A: Normal controller:



B: LCD/LED controller:



LCD meter: it has two parts, one is the LCD display, the other is LCD speed sensor.
LED meter : everything is same to LCD ,just don't care about speed sensor connector

Installing the water-bottle/tube battery

Remove screws for bottle holder from frame

Use the screws to fix the battery holder to the frame

Put the battery into the case. And connect the battery to the controller

Installing the controller bag

The controller bag kit includes: one bag, a mounting plate, a clip plate, two screws and nuts, one Allen key.

Slip the mounting plate under the saddle support

Fasten the clip plate to the mounting plate using both screws and nuts

Clip on the controller bag

Put the controller in the bag and connect the cables

Cable tying

It is advisable to use cable ties to secure the cables to your bicycle frame. Perhaps you find a way to tie them, so that they are almost invisible. Remember however to check, if they impede the movement of the handlebars. Also secure the brake cables running to your front and back brakes accordingly.

Note: As a suggestion, after you tied your cables, rotate your handlebars to see if the movement is smooth and undisturbed.

Finishing the fight

Checklist: (Turn off the battery)

1) Wheel is secured in place.
2) Back wheel is vertically aligned with front wheel.
3) Wheel has no loose parts.
4) All components on the handlebar have been secured tightly.
5) You are comfortable with the throttle, brakes, etc.
6) The handlebar is able to rotate freely.
7) The mechanical brakes work properly.
8) The battery cannot slide off without unlocking it.
9) Check that the battery poles are connected correctly.